



**CDS Connect Work Group
Meeting Summary
February 21, 2019
3:00-4:30 PM EST**

Attendees

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| AHRQ Sponsors | Ed Lomotan, Shafa Al-Showk, Anca Tabakova |
| Work Group Members | Andrey Soares, Apurva Desai, Barry Blumenthal, Beatriz Rocha, Bryan Bagdasian, Danny van Leeuwen, Debi Willis, Diane Montella, Dwayne Hoelscher, Edna Boone, Frank Sonnenberg, India Duncan, Jeremy Michel, Jonathan Teich, Joshua Richardson, Maria Michaels, Marc Sainvil, Nedra Garret, Noam Artz, Patrick Dowling, Preston Lee, Raajiv Ravi, Randolph Barrows, Ronilda Lacson, Ryan Mullins, Talar Markossian |
| MITRE CDS Connect Project Members | Ginny Meadows, Dave Winters, Dylan Mahalingam, Julia Afeltra, Lacy Fabian, Noranda Brown, Sharon Pacchiana, Sharon Sebastian |

The MITRE Corporation operates the Centers for Medicare & Medicaid Services (CMS) Alliance to Modernize Healthcare (CAMH), a federally funded research and development center (FFRDC) dedicated to strengthening the nation's health care system. MITRE operates CAMH in partnership with CMS and the Department of Health and Human Services.

Agenda

- Welcome and brief review of meeting objectives and the agenda
- CDS Connect Sustainability Path project – current status and feedback
- Demonstration of the enhancements to artifact discovery
- Option Year (OY) 2 pilot site selection and artifact development
- Agency for Healthcare Research and Quality (AHRQ) Authoring Tool Webinar
- CDS Connect participation at the Healthcare Information and Management Systems Society (HIMSS) 19 Conference
- Closing

Action Items

- None

Meeting Summary

Welcome

MITRE started the meeting by welcoming participants and reviewing the names of work group members participating in the call. Maria Michaels then reviewed the agenda and facilitated the rest of the discussion.

Overall:

The meeting opened with a discussion of current status and next steps for the CDS Connect Sustainability Path project. In addition, a demonstration and discussion on new search functionality in the Repository was provided. An update was shared about the final selection of this year's pilot organization and the current progress on artifact development, as well as an update on CDS Connect outreach efforts during HIMSS19 and an AHRQ-sponsored webinar. During each presentation, work group member ideas, suggestions and concerns were encouraged.

CDS Connect Sustainability Path Project, Lacy Fabian (MITRE)

Lacy Fabian provided a review of the current progress and next steps for the Sustainability Path project. The team has accomplished the analysis of CDS Connect Sustainability options, including documentation of the current state and an environmental scan. Next steps and activities include:

- Concluding discussions with organizations by the end of April
- Providing a report of all discussions in June
- Providing an analysis and recommendations on the path forward in July
- Finalizing the CDS Connect transition plan in September

Lacy asked if there were any questions or comments on this information.

- a. A work group member asked whether there were any hard constraints on items like budget and staffing. Lacy responded that no constraints have been assumed.
- b. A work group member asked how this might fit with work being done through the Collaborative Measure Development effort, in thinking about the combined electronic clinical quality improvement (eCQI) process versus electronic clinical quality measures (eCQMs) and clinical decision support (CDS) separately? Lacy responded that one of the objectives in their discussions with others is to ensure they are aware of the current environment, including areas like these.

Lacy discussed some of the themes emerging from the phase 2 work. She mentioned that it was important for the MITRE team to think about the different user populations, each with different needs. A common feedback item was that it's unlikely that one option would satisfy all needs. Each user will inform the business model and requirements. The team is also looking at other opportunities to expand the reach of CDS Connect.

In phase 3, the team is performing outreach to others to help inform their analysis and recommendations. One of the outreach efforts includes the CDS Connect Work Group, to gather input from the members on key questions that have been defined. Some of these questions include:

- Who are the primary users?
- What are the key performance indicators (KPIs) -attributes and qualities that are important to the sustainment, and which organizations might help achieve those key performance indicators?

- Defining CDS Connect Principles - key attributes that embody what is expected by AHRQ, the development team, the work group and finally, the users. For example, what are important principles, such as not having ads?

Initially, a survey was discussed as a tool to help respond to questions, but it was determined that this may not be the most appropriate way to garner member feedback, so additional information will be collected more informally.

Work group member comments:

- a. A work group member asked how the KPIs would be measured?
 - i. Lacy responded by giving an example on Trust - if a private organization was authoring artifacts and putting them in the Repository, is there trust in the overall sponsorship of CDS Connect to ensure these are valid artifacts?
- b. Maria Michaels mentioned that a work group member commented in the chat box: "Patient consumers can be individuals, but more likely advocacy groups or social media groups seeking CDS artifacts or wanting to influence CDS artifacts".

Demonstration of Artifact Discovery, Dave Winters (MITRE)

Dave Winters provided a demonstration of the enhancements to the artifact search capabilities in the Repository. Currently, when you access the "Artifacts" option in the Repository, the four most recently updated artifacts display first, and beneath this, the rest of the artifacts are listed alphabetically by topic. Because the list of artifacts is growing, this method is not optimized for finding artifacts of interest, and the CDS Connect team designed a more scalable solution. Dave discussed and demonstrated the new search capabilities:

- The team identified the need to use a clinical vocabulary for authors to use to tag their artifacts. After doing an environmental scan, the team determined that using the National Library of Medicine's Medical Subject Headings (MeSH) was a good solution, as it is very rich, widely-used, and freely available.
- The new capabilities are a "work in progress" in the CDS Connect development sandbox, and the intent is to provide a richer ability to search and to browse.
- The search bar allows you to select the field you want to search within - either "All", or in more specific fields such as title, tag, etc.
- There is a new topic capability, where each user can add their topics of interest drawn from the MeSH terms. Currently in the sandbox, all the MeSH categories are included, but the team plans on narrowing this before going live, removing those categories that are not applicable.
- The description of each MeSH term displays when you hover over the term.
- There will also be a numeric indication of how many artifacts match the term used in the search.
- Currently, no information is stored by users on the topics selected, but as the CDS Connect team considers expanding the user account capabilities, we may be able to make this persistent for the user.
- There are some remaining development tasks, such as improved styling, and additional testing.

Dave then asked for feedback from the work group, including any other functionality that others would find useful:

Work group member comments:

- a. A work group member commented that a user today is expecting to do a google type search. Is that the equivalent of the "All" option - that it would search anything?

- i. Dave agreed this was the equivalent.
- b. A follow-up question was asked on how the search results are ranked? For example, is there a higher rank if the search term shows up in the title rather than just in a word within the artifact?
 - i. Dave agreed this might be a useful feature and the team could investigate adding weighting to the results.
 - ii. Another work group member agreed that this would be useful and suggested that the team also consider making the search more prominent at the beginning of the page – as now it seems to be buried.
- c. A work group member commented that he felt that the MeSH terms are overwhelming, and it might be difficult using them to tag and to pick a term to search on.
 - i. Another work group member agreed and commented that his organization found that using MeSH to categorize was not easy. He suggested that it might be better to use the free text capability when searching.
 - ii. Dave expressed appreciation for these comments plus any experiences work group members have had in this area.
- d. Sharon Sebastian mentioned that one of the other reasons the CDS Connect team selected MeSH was to align with other AHRQ sites, who also use it.
- e. A work group member commented that trusting that the tags assigned in the metadata were always accurate may be challenging.

Update on OY2 Pilot Selection and CDS Development Approach, Ginny Meadows (MITRE)

Ginny Meadows announced that b.well Connected Health has been selected as the OY2 pilot organization. b.well is a small, woman-owned, private company founded in 2015 that assists consumers in managing their health care and providing resources to enable self-management. b.well met all the desired pilot characteristics:

- They utilize Fast Health Interoperability Resources standards, and standard terminologies
- Their software platform and apps are self-developed with mature technical capabilities and processes
- They have expertise in understanding the needs of patients/consumers.

The CDS developed this year will be patient-facing and will provide the b.well end-users with information about preventive care they may wish to consider. b.well has selected their top priorities from the list of the US Preventive Services Task Force Grade A and B recommendations. The MITRE team is developing Level 2 representations for each of the selected recommendations, starting with the four recommendations that b.well deemed their first priority. The final number of CDS artifacts developed will depend on the complexity of converting the textual guidelines into structured CDS logic. The selection of the recommendations is dependent on other factors such as the value for b.well's customers, the number of patients that would be impacted by the recommendation, and structured data availability. The MITRE clinical informatics team will continue to further refine the L2 logic and begin identifying the metadata and value sets appropriate for each artifact.

CDS Connect Outreach and Demonstrations, Sharon Sebastian (MITRE)

Sharon Sebastian provided an update on the CDS Connect teams' participation at both HIMSS19 and the AHRQ-sponsored Health Information Technology (HIT) webinar that focused on CDS Authoring Tool training.

In mid-February, the CDS Connect team participated in HIMSS19 through both an education session on "Maximizing Synergy Between Federal Health Information and Technology Partners", and during the 3-day Interoperability Showcase (IS). In the IS, the team demonstrated the use of the Pain Management Summary integrated with the NextGen electronic health record, during the Bundled Payment/Pain Management use case, presenting 22 demonstrations. HIMSS19 reported 11,000 attendees visited the IS space.

The AHRQ HIT webinar on CDS Authoring Tool training (2/7/19) was attended by 300 people and recorded for future use. The webinar also generated many written questions from participants, which the team has responded to. AHRQ will post both the questions and the responses, as well as a pdf version of the slide deck as soon as possible.

Open Discussion and Closeout

No additional time was available for discussion, and the meeting was adjourned.